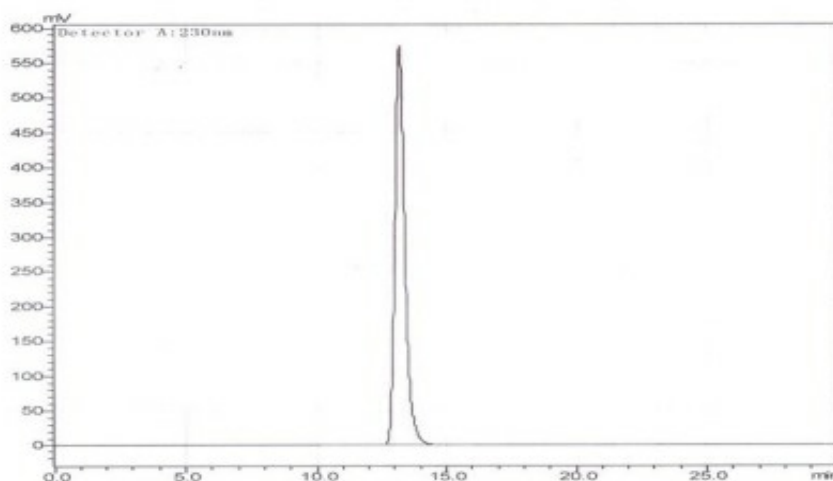


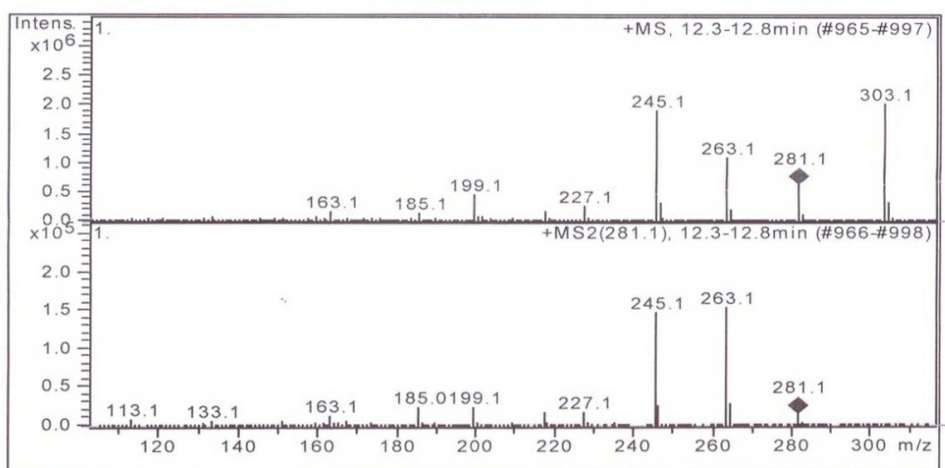
Product Name:	Brefeldin A
Product Number:	B012
CAS Number:	20350-15-6
Molecular Formula:	C ₁₆ H ₂₄ O ₄
Molecular Weight:	280.36
Form:	Powder
Appearance:	White or almost white powder
Solubility:	Acetone: Soluble DMSO: Soluble Ethanol: Soluble Methanol: 10 mg/mL, Clear and colorless or light yellow solution Water: Insoluble
Source:	<i>Penicillium brefeldianum</i>
Storage Conditions:	2-8°C
Description:	<p>Brefeldin A is a mammalian and plant cell antibiotic involved in protein transport inhibition and tumor apoptosis.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
Mechanism of Action:	Brefeldin A inhibits protein transport by preventing accumulation of COPI proteins on the Golgi apparatus which facilitate vesicle fusion from the endoplasmic reticulum (ER). By preventing Golgi-COPI protein function, vesicles from the ER cannot properly fuse with the Golgi to be secreted to destined locations.
Cancer Applications	Brefeldin A has demonstrated anti-cancer properties by inducing apoptosis in leukemia and colon carcinoma cells.

Technical Data:

HPLC Chromatogram Showing Ultra High, Single Fraction Purity of Brefeldin A, EvoPure®



Mass Spectrometry Results of Brefeldin A



References:

Nebenführ, Andreas, et al. "Brefeldin A: Deciphering an Enigmatic Inhibitor of Secretion." *American Society of Plant Biologists* 130.3 (2002): 1102-108. *Plantphysiol.org*. Nov. 2002. Web. 29 Oct. 2012.

Shao, R. G. "Brefeldin A Is a Potent Inducer of Apoptosis in Human Cancer Cells Independently of P53." *Experimental Cell Research* 15.227 (1996): 190-96. *Ncbi.gov*. Web. 18 Sept. 2012.

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/